



Name \_\_\_\_\_

Practice: For use after Lesson 1.2, Algebra 2 with Trigonometry

**Algebra 2**  
**Unit #1**  
**WS #3****Operations with Real Numbers**

Write the additive inverse and the multiplicative inverse for each number.

1. 14 \_\_\_\_\_ 2. -2.7 \_\_\_\_\_ 3.  $1\frac{1}{7}$  \_\_\_\_\_ 4. 0.07 \_\_\_\_\_

Perform the indicated operation.

5.  $-56 + (-65)$  \_\_\_\_\_ 6.  $43 + (-19)$  \_\_\_\_\_ 7.  $-39 - (-28)$  \_\_\_\_\_  
8.  $21 - (-20)$  \_\_\_\_\_ 9.  $47 - 86$  \_\_\_\_\_ 10.  $(15)(-6)$  \_\_\_\_\_  
11.  $(-27)(-3)$  \_\_\_\_\_ 12.  $-225 \div (-9)$  \_\_\_\_\_ 13.  $-136 \div (-17)$  \_\_\_\_\_  
14.  $(-4)(6)(-7)(2)$  \_\_\_\_\_ 15.  $(-\frac{3}{5}) + (-\frac{1}{5})$  \_\_\_\_\_  
16.  $\frac{3}{7} - (-\frac{6}{7})$  \_\_\_\_\_ 17.  $(-\frac{3}{4})(\frac{4}{3})$  \_\_\_\_\_

Simplify.

18.  $|-5| + |16| + |9| + |17|$  \_\_\_\_\_ 19.  $|14 - 8| + |29 - 16| - |38|$  \_\_\_\_\_  
20.  $|\frac{5}{3}| + |-\frac{4}{3}|$  \_\_\_\_\_ 21.  $(|\frac{7}{5}|)(|-\frac{10}{7}|)$  \_\_\_\_\_  
22.  $2^3 \cdot 3^2$  \_\_\_\_\_ 23.  $(5 - 11)^2$  \_\_\_\_\_ 24.  $(2 \cdot 5)^3$  \_\_\_\_\_

**Applications**

25. **Business** The stock prices for a company showed the following gains and losses: Monday,  $+\frac{3}{8}$ ; Tuesday,  $+1\frac{1}{4}$ ; Wednesday,  $-\frac{1}{2}$ ; Thursday,  $+\frac{1}{8}$ ; Friday,  $-1\frac{3}{4}$ . What was the net change for the week? \_\_\_\_\_

**MIXED PRACTICE**

Write each decimal as a quotient of two integers.

26. 0.16 \_\_\_\_\_ 27. 1.625 \_\_\_\_\_ 28.  $0.\overline{7}$  \_\_\_\_\_ 29.  $0.\overline{24}$  \_\_\_\_\_

Convert each fraction to decimal form.

30.  $\frac{3}{20}$  \_\_\_\_\_ 31.  $\frac{7}{8}$  \_\_\_\_\_ 32.  $\frac{2}{15}$  \_\_\_\_\_ 33.  $\frac{7}{11}$  \_\_\_\_\_

Perform the indicated operation.

34.  $-41 + 29$  \_\_\_\_\_ 35.  $11 - (-88)$  \_\_\_\_\_ 36.  $(-5)(-19)$  \_\_\_\_\_